

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 March 2005 (24.03.2005)

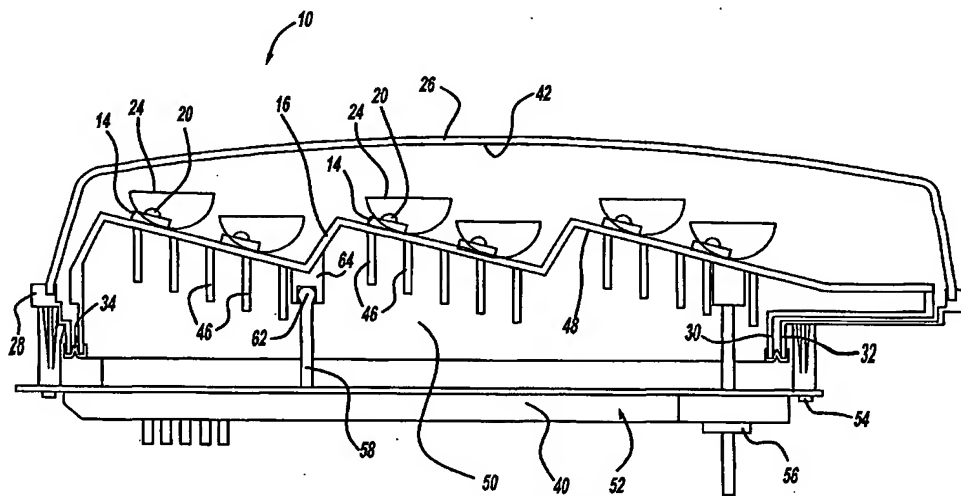
PCT

(10) International Publication Number
WO 2005/025932 A2

- (51) International Patent Classification⁷: **B60Q** MI 48017 (US). STEEN, Ronald, L. [US/US]; 7828 Brookpines Drive, Clarkston, MI 48348 (US).
- (21) International Application Number: PCT/US2004/028846 (74) Agent: MILLER, John, A.; Warn, Hoffmann, Miller & Lalone, P.C., P.O. Box 70098, Rochester Hills, MI 48307 (US).
- (22) International Filing Date: 7 September 2004 (07.09.2004) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/501,069 8 September 2003 (08.09.2003) US (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
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[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR MOUNTING AND ADJUSTING LED HEADLAMPS



(57) Abstract: An LED headlamp assembly (10) for a vehicle. The headlamp assembly (10) includes a plurality of LED units (14) mounted to a common carrier (16), where the LED units (14) include one or more LEDs and generate white light. The headlamp assembly (10) further includes a headlamp housing (28) that is mounted to the vehicle by a mounting frame (52). The carrier (16) is sealed to the housing (28) by a flexible bellows (34). An outer lens (26) is mounted to the housing (28) so that the LED units (14) are positioned within a sealed compartment (42). A backside of the carrier (16) outside of the sealed compartment (42) includes fins (46) or other heat sinking devices to remove heat generated by the LED units (14). The frame (52) allows convective air to flow around the heat sink (46) to remove heat from the LED units (14). A series of actuators (56) and/or pivots (58) are mounted to the frame (52) and to the carrier (16) so that the carrier (16) can be moved on at least one axis to adjust the direction of the LED headlamp assembly (10).



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ,*

BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- *of inventorship (Rule 4.17(iv)) for US only*

Published:

- *without international search report and to be republished upon receipt of that report*

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